

R. G. CLYNE.
CARTRIDGE.
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1,060,818.

Patented May 6, 1913.

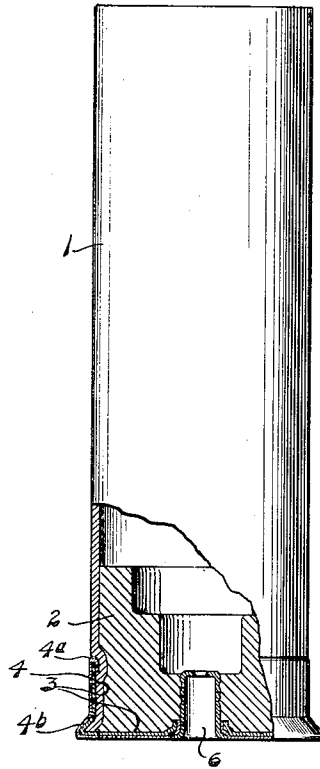


Fig. 1.

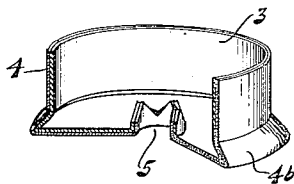


Fig. 2.

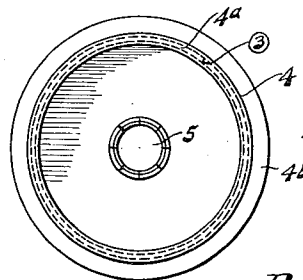


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT G. CLYNE, OF ALTON, ILLINOIS, ASSIGNOR TO WESTERN CARTRIDGE COMPANY, OF EAST ALTON, ILLINOIS, A CORPORATION OF NEW JERSEY.

CARTRIDGE

1,060,818.

Specification of Letters Patent.

Patented May 6, 1913.

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To all whom it may concern:

Be it known that I, ROBERT G. CLYNE, a subject of the King of Great Britain, residing at Alton, in the county of Madison and State of Illinois, have invented certain new and useful Improvements in Cartridges, of which the following is a specification.

My invention relates to improvements in cartridges, and more particularly to metallic base caps for securing and anchoring the paper shell or tube of that class of cartridges known as "paper shot shells".

The primary object is to improve upon and reduce the cost of the material entering into a metallic base cap of this class, and at the same time give it greater strength and providing against rust or oxidation as is done where the entire cap is made of a non-ferrous metal, such as copper, brass, or the like.

A further object is to provide a double walled or laminated metallic base cap, the inner wall or shell being preferably made from ferrous metal, such as iron, steel, or the like, and the outer wall or shell being made of a thin layer or covering of non-ferrous material, this outer wall being of comparatively thin material but of sufficient thickness to exclude the air from coming into contact with the inner or thicker shell of ferrous material thereby preventing rusting or oxidation.

A still further object is to provide an improved form of metallic base cap having its mouth or rim portion reinforced by means of an inwardly extending hooked beading formed about the upper marginal edges of the outer shell or covering and extending over and interlocking with the upper marginal edges of the inner shell or main body portion composed of the ferrous metal.

With the above mentioned and other ends in view, the invention consists in the novel construction, arrangement, and combination of parts, hereinafter described, illustrated in some of its embodiments in the accompanying drawings, and particularly pointed out in the appended claims.

Referring to the drawings forming a part of this specification, Figure 1, is a side elevation of the cartridge constructed in accordance with my invention, a portion of the improved metallic base cap being broken away and shown in section for the purpose

of clearer illustration of the parts. Fig. 2, a perspective view, partly in section, of a slightly modified form of the improved metallic base cap. Fig. 3, a top plan view of the improved metallic base cap shown in Fig. 1, detached.

Similar numerals of reference designate like parts throughout all the figures of the drawings.

The improved cartridge may comprise the usual paper shell or tube 1, and a suitable base wad 2.

The improved metallic base cap to which this invention particularly relates, comprises a double-walled or laminated base cap, the main or inner wall or shell 3, being composed of suitable ferrous metal, such as iron, steel, or the like, and the outer shell or covering 4, being of nonferrous metal, such as copper, brass, or the like, this outer covering or casing being preferably of relatively thin material, but of sufficient thickness to exclude the air from the main wall or shell 3, and thereby preventing the rusting or oxidation of this part of the base cap.

The outer shell or covering 4, is preferably provided about its upper marginal edges with an inwardly extending hooked beading 4^a, extending over and interlocking with the upper marginal edges of the inner wall or shell 3, thereby not only reinforcing and strengthening the mouth of the metallic base cap and forming an interlocking anchor beading for interlocking with the subjacent portion of the paper shell or tube 1, but also sealing the rim portions of the inner and outer walls and thereby excluding the air from between the walls and preventing any rusting or oxidation at the rim portions of the base cap.

The improved metallic base cap may be provided with the usual peripheral base flange 4^b, for holding the cartridge in position within the breach of the gun barrel, and the base or bottom portion thereof may be provided with a battery cup receiving opening or primer pocket 5, of any suitable and convenient form for the reception of a suitable primer or a battery cup 6, such as shown, for example,—in Fig. 1, of the drawings.

From the foregoing description, taken in connection with the accompanying drawings, the construction and advantages of my invention will be readily understood.

Having thus described some of the embodiments of my invention, what I claim and desire to secure by Letters Patent is,—

1. In a cartridge, a base cap comprising
5 an inner wall of ferrous metal and an outer wall of non-ferrous metal having an inwardly extending hooked beading extending over and interlocking with the upper marginal edges of said inner wall.
2. In a cartridge, a base cap made up of
10 inner and outer shells of ferrous and non-

ferrous metals, respectively, said outer shell having an annular hooked flange taking over and engaging the rim portion of said inner shell.

In testimony whereof I have affixed my
signature in presence of two witnesses. 15

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Witnesses:

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